

Thursday, October 28, 1999

PCT Gazette

Presentation: Basic Image: Small

Français



(3 of 5)

View Images

PUBLISHED INTERNATIONAL APPLICATION

- (11) WO 98/13071 (13) A1
- (21) PCT/US97/17044
- (22) 24 September 1997 (24.09.1997)
- (25) ENG (26) ENG (33) US
- (31) 60/026,641 (32) 24 September 1996 (24.09.1996)
- (43) 02 April 1998 (02.04.1998)
- (51)⁶ A61K 48/00, 49/00, C12Q 1/68, 1/70, C12N 15/85, 15/86
- (54) GENE THERAPY FOR INHIBITION OF ANGIOGENESIS
- (63) 24 September 1996 (24.09.1996) 60/026,641 US (CIP)
- (71) MERCK & CO., INC. 126 East Lincoln Avenue, Rahway, NJ 07065 ; (US). [US/US]. (for all designated states except US)
- (72)(75) THOMAS, Kenneth, A., Jr. 126 East Lincoln Avenue, Rahway, NJ 07065 ; (US) [US/US]. GOLDMAN, Corey, K. 3847 12th Court South, Birmingham, AL 35222 ; (US) [US/US]. KENDALL, Richard, L. 126 East Lincoln Avenue, Rahway, NJ 07065 ; (US) [US/US]. HUCKLE, William, R. 126 East Lincoln Avenue, Rahway, NJ 07065 ; (US) [US/CA]. BETT, Andrew, J. 126 East Lincoln Avenue, Rahway, NJ 07065 ; (US) [US/CA].
- (74) MERCK & CO., INC. 126 East Lincoln Avenue, Rahway, NJ 07065 ; (US).
- (81) AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, ID, IL, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU ; AP (GH, KE, LS, MW, SD, SZ, UG, ZW) ; EA (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM) ; EP (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE) ; OA (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG)

No Image Available.

Abstract

The present invention relates to methods of *gene therapy* for inhibiting angiogenesis associated with solid tumor growth, tumor metastasis, inflammation, psoriasis, rheumatoid arthritis, hemangiomas, diabetic retinopathy, angiofibromas, and macular degeneration. *Gene therapy* methodology is disclosed for inhibition of primary tumor growth and metastasis by gene transfer of a nucleotide sequence encoding a soluble form of a *VEGF* tyrosine kinase receptor to a mammalian host. The transferred nucleotide sequence transcribes mRNA and a soluble receptor protein which binds to *VEGF* in extracellular regions adjacent to the primary tumor and vascular endothelial cells. Formation of a s*VEGF*-R/*VEGF* complex will prevent binding of *VEGF* to the KDR and FLT-1 tyrosine kinase receptors, antagonizing transduction of the normal intracellular signals associated with vascular endothelial cell-induced tumor angiogenesis. In addition, expression of a soluble receptor tyrosine kinase may also impart a therapeutic effect by binding either with or without *VEGFs* to form non-functional heterodimers with full-length *VEGF*-specific tyrosine kinase receptors and thereby inhibiting the mitogenic and angiogenic activities of *VEGFs*.

Presentation: Basic Image: Small

Français



(3 of 5)